

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)	
)	
Advanced Television Systems)	MB Docket No. 87-268
and Their Impact Upon the)	
Existing Television Broadcast)	
Service)	
)	
To: The Commission		

PETITION FOR RECONSIDERATION

WSJV Television, Inc. ("WSJV"), licensee of WSJV, Channel 28, and permittee of WSJV-DT, Channel 58, Elkhart, Indiana (Facility ID No. 74007), by its attorneys and pursuant to Section 1.106 of the Commission's regulations, hereby petitions for reconsideration of Appendix B of the *Seventh Report and Order and Eighth Further Notice of Proposed Rulemaking* in the above-captioned proceeding.¹ As the attached engineering statement describes in detail, WSJV seeks modification to the technical parameters allotted to WSJV-DT in Appendix B, in order that its digital facility may effectively replicate existing analog service as WSJV had certified.

Respectfully submitted,

WSJV Television, Inc.

_____/s/
Timothy J. Cooney
Wilkinson Barker Knauer, LLP
2300 N Street, N.W., Suite 700
Washington, DC 20037

October 26, 2007

¹ *Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service*, MB Docket No. 87-268, *Seventh Report and Order and Eighth Further Notice of Proposed Rulemaking*, FCC 07-138, 22 FCC Rcd 15581 (rel. Aug. 6, 2007).

ENGINEERING STATEMENT WSJV TELEVISION, INC.

INTRODUCTION

WSJV Television, Inc., licensee of analog TV station WSJV, Channel 28, and permittee of DTV station WSJV-DT, Channel 58, Elkhart, Indiana (Facility ID No. 74007), seeks reconsideration of the Commission action in MB Docket 87-268 that changed the “certification facilities” in connection with WSJV’s tentative channel designation for post-transition digital operation. See *Seventh Report and Order, Appendix D2* (“Granted Requests For Changes To Certification That Meet The Interference Criteria”), FCC 07-138 (“7th R&O”). A request to correct the station’s Appendix B facilities was initiated in the reply comments submitted by the licensee in response to the *Seventh Further Notice of Proposed Rule Making*, FCC 06-150 (“7th FNPRM”), wherein a change in the tentatively approved replication facilities listed in Appendix B for WSJV was sought to ensure that the existing directional antenna system of the licensed analog facility, as authorized in BLCT-19991223ACN, could be utilized for post-transition digital operation on Channel 28 to effectively replicate existing analog service. Contrary to the licensee’s actual request the Commission changed the station’s “certification facilities” to non-replicating parameters that match the smaller coverage footprint of WSJV’s interim DTV Channel 58 facilities authorized in BMPCDT-20050620ABX. The licensee therefore reiterates the original request to modify the replication facilities for WSJV, as specified in 7th FNPRM, so that the existing directional antenna system of the associated analog facility can be used to provide post-transition digital service to all viewers currently receiving analog service from WSJV.

BACKGROUND

The basis for changing the replication facilities for WSJV stems back to the creation of the original DTV Table in the *Sixth Report & Order, DTV Allocations*, FCC 97-115. Specifically, an inaccuracy in the orientation of the directional antenna system that existed on WSJV's analog television station license prior to December 23, 1999 was carried over to the station's associated digital Channel 58 allotment when the initial DTV table was created in 1997. Curative steps were subsequently taken by the licensee to resolve the discrepancy in the station's antenna orientation. For instance the analog station license was successfully modified as evidenced in BLCT-19991223ACN and a maximization permit to construct a nondirectional operation on DTV Channel 58 was also obtained.

It was not possible for the licensee to eliminate the discrepancy that was built into the original DTV table even though the analog station license as corrected in 1999 was included in the Commission's certification database and considered in the evaluation of digital channel elections. WSJV elected its only in-core channel based on the certification that the station would construct replication facilities for post-transition digital operation, and as a result the Commission relied on the initial DTV Channel 58 allotment parameters and service area to compute the reference facilities tentatively approved in the channel election process as confirmed by contour map attached as Figure 1. Thus the Appendix B facilities proposed for post-transition digital operation on Channel 28 in the 7th FNPRM were determined by the Commission based on the incorrect antenna pattern rotation.

Pursuant to criteria outlined in the 7th FNPRM the licensee timely filed a request to modify WSJV's replication facilities to accurately reflect the existing directional antenna and pattern rotation that will be used for post-transition digital broadcasting on Channel 28. As

stated above, the subsequent 7th R&O changed the Appendix B facilities for WSJV to match the station's current DTV facility authorization on Channel 58.

PROPOSED REPLICATION FACILITIES

The licensee requested a change in the Appendix B facilities for WSJV in reply comments to the 7th FNPRM in order to ensure that the station's actual analog service area would be fully replicated, and to secure the station's existing UHF Channel 28 directional antenna system for continued use in the post-transition era. Since the initial DTV allotment on Channel 58 was established based on erroneous antenna information, the licensee asked the Commission to designate WSJV's licensed analog facility as the appropriate measure for establishing replication facilities for post-transition digital operation on Channel 28. The licensee also specified the actual directional antenna specifications (i.e. Antenna ID No. 30747 and 60 degrees rotation) in lieu of the theoretical antenna pattern that is normally calculated for replication.

As before, the licensee seeks to change the Appendix B facilities for WSJV to reflect replication of the station's current analog service based on use of the existing directional antenna to be employed for post-transition service. A maximum ERP of 201.8 kW is required to replicate the service area footprint established from the parameters authorized in BLCT-19991223ACN. As demonstrated by the antenna relative field patterns and data provided in Figures 2 and 3, the theoretical replication pattern calculated in accordance with the OET 69 methodology involves greater suppression in the nulls of the trilobe shaped pattern than that of the measured pattern supplied by the manufacturer of the existing antenna. Therefore applying the standard replication procedures is not ideal in this case since continued use of the existing antenna will be limited to a maximum ERP of 143.7 kW,

which as demonstrated in Figure 4 constitutes a 1.473 dB reduction in power. The above power reduction scenario will not only prevent WSJV from achieving 100% service replication, but will necessitate a power increase proposal at the application stage that will require coordination with Canada and most likely violate the current application freeze.

The precise replication facilities that the licensee now proposes for WSJV are fully described in the Tech Box attachment of Figure 5. In view of the fact that post-transition use of the analog station's existing antenna will result in some de minimis extension of the noise-limited contour in certain directions beyond the present Grade B contour (63.11 dBu with dipole modification), a map depicting the slight increase in service is attached as Figure 6. The noise-limited contour representing the change in Appendix B facilities that the Commission approved in 7th R&O is likewise shown. It is notable that the proposed Appendix B facilities do not involve contour extension beyond the combined contours of the licensed analog station and the Appendix B facilities specified in the 7th R&O.

A summary of the detailed interference analysis that was conducted concerning reconsideration of the Appendix B facilities specified for WSJV in the 7th R&O is provided as Figure 7. The summary gives a side-by-side comparison of the new facility proposal for WSJV and the previous evaluation results for the Appendix B facilities specified in the 7th FNPRM and 7th R&O. The analysis results were determined using a commercial version of the TV Interference and Spacing Analysis software that was developed for the Commission by Techware, Inc. The summary demonstrates that the proposed Appendix B facilities for WSJV are less intrusive on other stations than the facilities specified in the 7th FNPRM and involve no greater impact than the facilities contained in the 7th R&O.

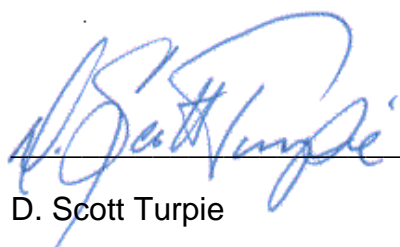
Accordingly, the technical information in Appendix B of the 7th R&O regarding the allotment for WSJV in Elkhart, IN can be modified as follows:

Facility ID	State & City	NTSC	DTV								
		Chan	Chan	ERP (kW)	HAAT (m)	Antenna ID	Latitude (DDMMSS)	Longitude (DDMMSS)	Area (sq km)	Population (thousand)	% Interference Received
74007	IN ELKHART	28	28	201.8	335	TBD	413658	861138	21680	1342	3.5

CONCLUSION

WSJV Television, Inc. is attempting to correct the discrepancy in antenna orientation that was incorporated in the 7th FNPRM Appendix B facilities for WSJV and does not wish for the Commission to change it's pre-election certification to replicate. In addition, the licensee also seeks to substitute the actual antenna pattern of the existing directional antenna system that will be used for post-transition digital transmission in lieu of the replication pattern that is usually calculated by the Commission using the OET 69 methodology.

Respectfully submitted,
LOHNES AND CULVER



D. Scott Turpie

October, 2007

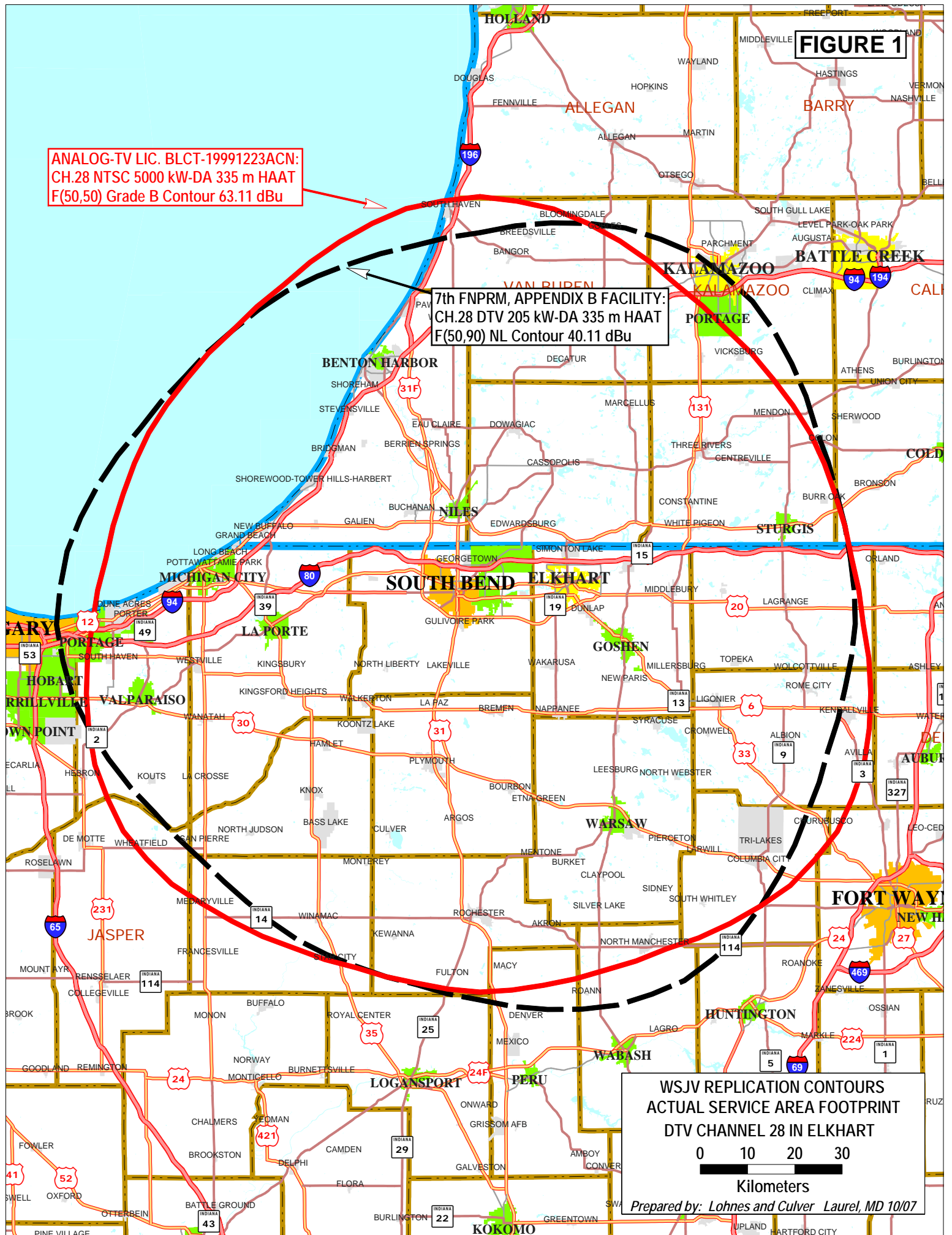
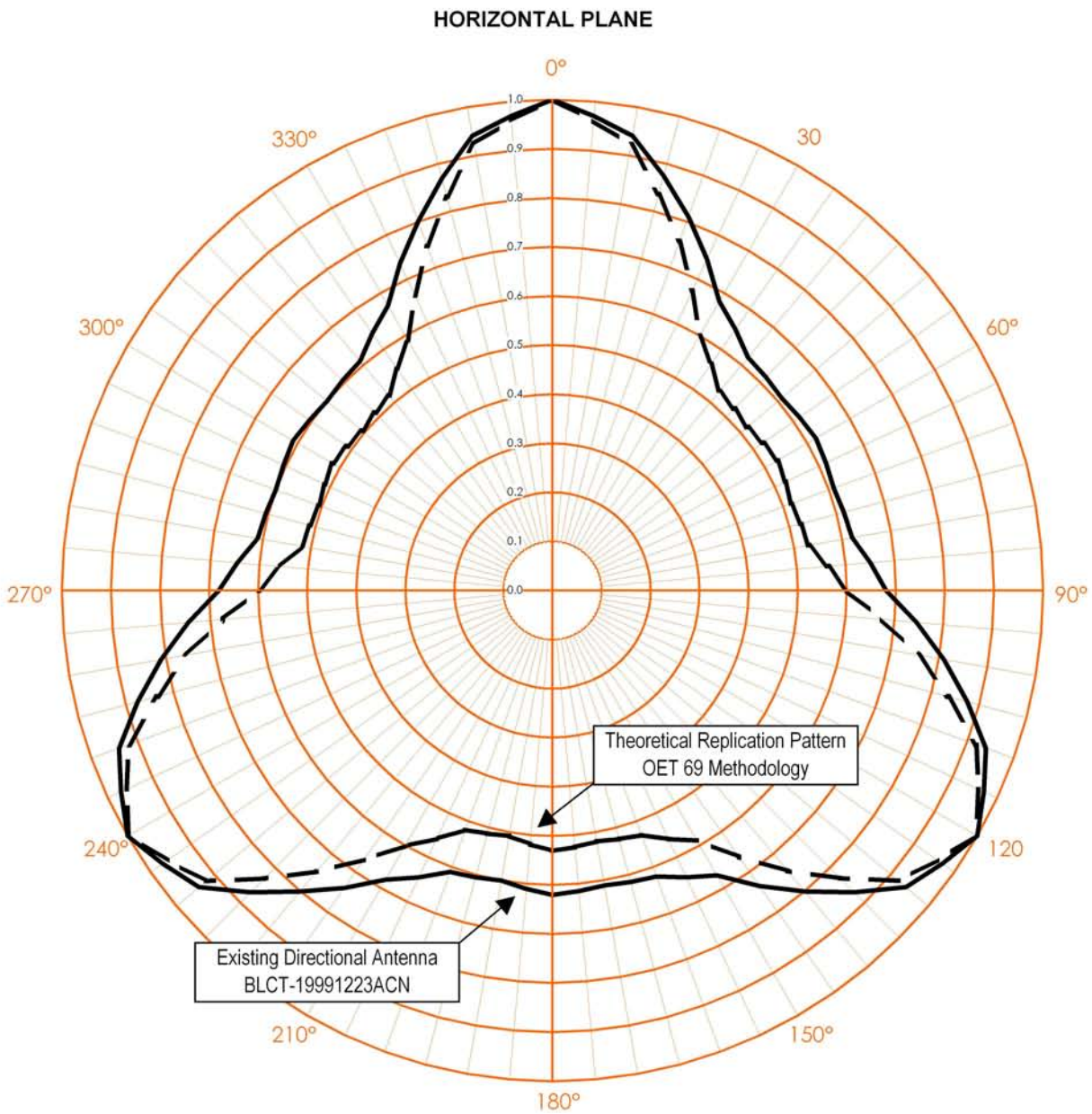


FIGURE 2
ANTENNA RELATIVE FIELD PATTERNS
WSJV CH. 28 IN ELKHART



No Rotation

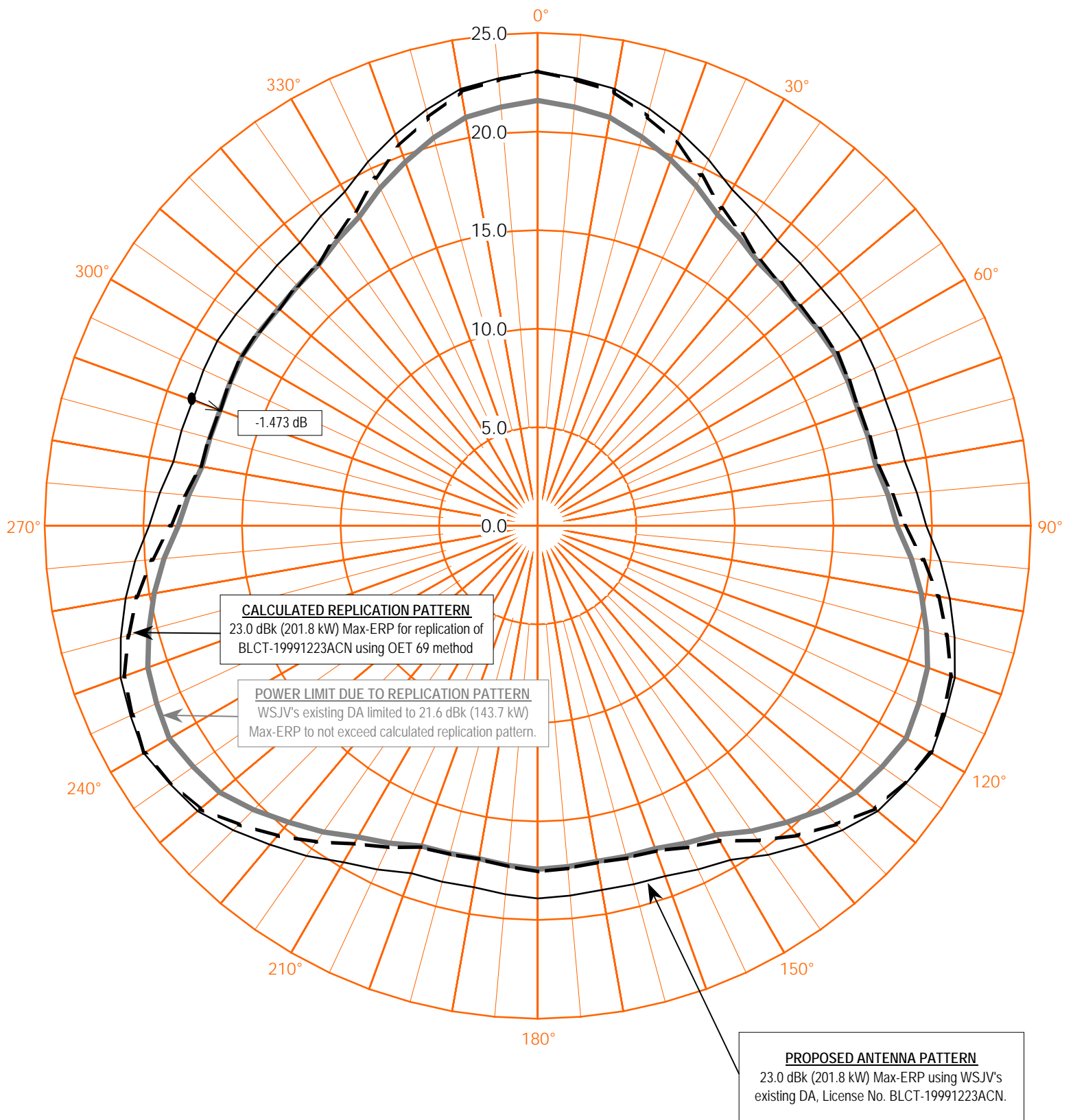
Project No. 275
Station: WSJV-DT
Channel: 28 (554-560 MHz)

Prepared By
Lohnes and Culver Laurel, Maryland
October 2007

FIGURE 3
ANTENNA RELATIVE FIELD DATA
WSJV CH. 28 IN ELKHART

Azimuth (Degrees)	Theoretical Replication Pattern Calculated Using OET 69 Method	Proposed Replication Pattern FCC File BLCT-19991223ACN
	(Relative Field)	(Relative Field)
0	1.000	1.000
10	0.923	0.940
20	0.758	0.810
30	0.600	0.680
40	0.530	0.620
50	0.518	0.610
60	0.530	0.620
70	0.518	0.610
80	0.530	0.620
90	0.600	0.680
100	0.758	0.810
110	0.920	0.940
120	0.997	1.000
130	0.921	0.940
140	0.746	0.800
150	0.589	0.670
160	0.530	0.620
170	0.519	0.610
180	0.530	0.620
190	0.507	0.600
200	0.519	0.610
210	0.601	0.680
220	0.747	0.800
230	0.921	0.940
240	0.998	1.000
250	0.920	0.940
260	0.757	0.810
270	0.600	0.680
280	0.518	0.610
290	0.506	0.600
300	0.518	0.610
310	0.507	0.600
320	0.518	0.610
330	0.589	0.670
340	0.747	0.800
350	0.924	0.940

FIGURE 4
HORIZONTAL PLANE RADIATION PATTERN (dBk)
WSJV CH. 28 IN ELKHART



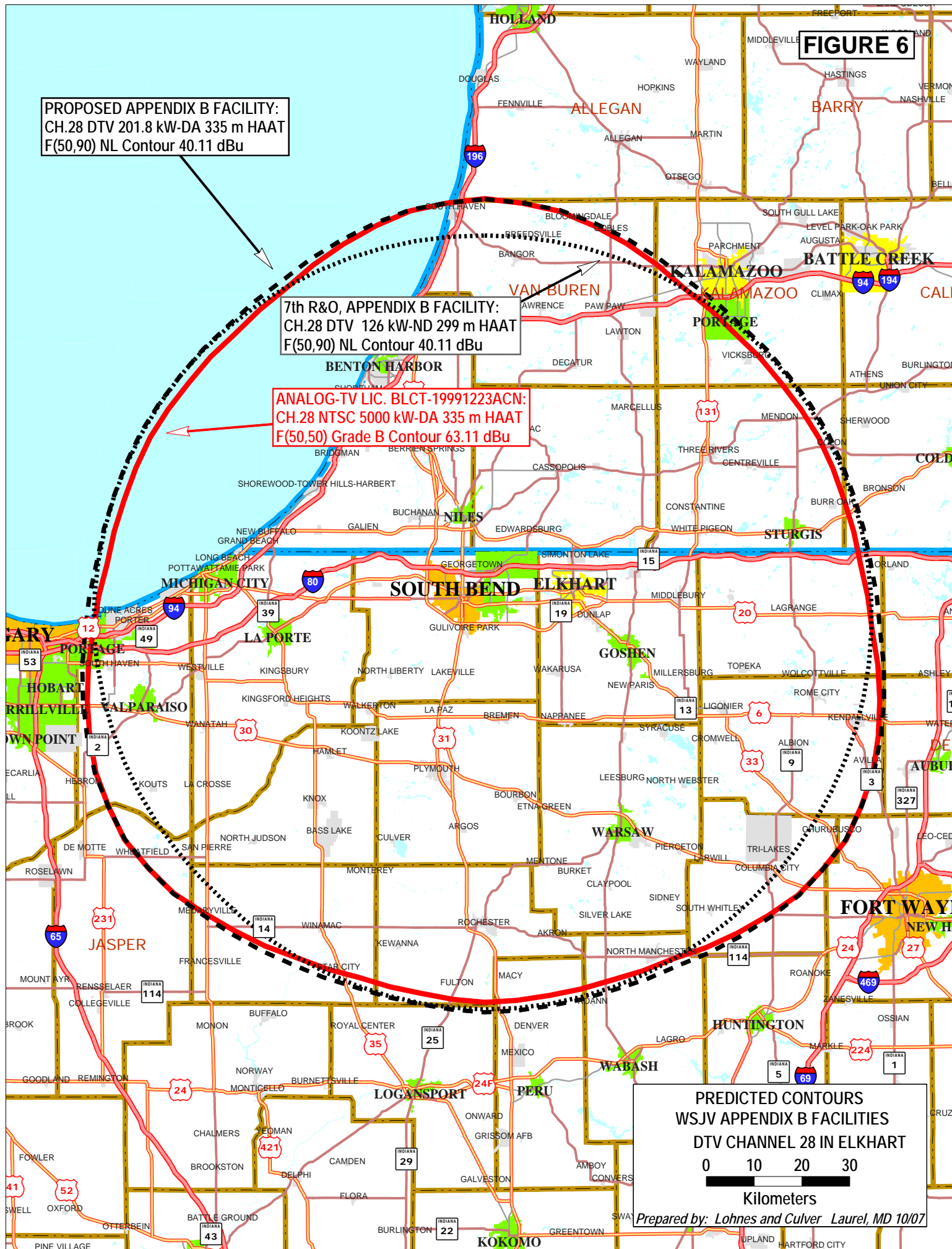
[illegible]

FIGURE 6

PROPOSED APPENDIX B FACILITY:
CH.28 DTV 201.8 kW-DA 335 m HAAT
F(50,90) NL Contour 40.11 dBu

7th R&O, APPENDIX B FACILITY:
CH.28 DTV 126 kW-ND 299 m HAAT
F(50,90) NL Contour 40.11 dBu

ANALOG-TV LIC. BLCT-19991223ACN:
CH.28 NTSC 5000 kW-DA 335 m HAAT
F(50,50) Grade B Contour 63.11 dBu



**PREDICTED CONTOURS
WSJV APPENDIX B FACILITIES
DTV CHANNEL 28 IN ELKHART**

0 10 20 30

Kilometers

Prepared by: Lohnes and Culver Laurel, MD 10/07

FIGURE 7
SUMMARY OF INTERFERENCE ANALYSES
RE: 28A IN ELKHART

AFFECTED STATIONS	28A IN ELKHART			
	Baseline Calculation (Certification Database)	7th FNPRM, FCC 06-150 Appendix B Facilities	7th R&O, FCC 07-138 Appendix B Facilities	Petition for Reconsideration Proposed Appendix B Facilities
Results for: 27A IL CHICAGO				
HAAT 510.0 m, ERP 160.0 kW				
Population within NL Contour	9,296,588	9,296,588	9,296,588	9,296,588
not affected by terrain losses	9,296,521	9,296,521	9,296,521	9,296,521
lost to NTSC IX	41,451	40,634	40,634	40,634
lost to additional IX by DTV	1,362	22,709	12,320	11,252
lost to IX by DTV only	1,448	22,862	12,473	11,405
lost to all IX	42,813	63,343	52,954	51,886
Potential Interfering Stations:				
	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA
	27N OH Bowling Green BPET-20030613AFZ	27N OH Bowling Green BPET-20030613AFZ	27N OH Bowling Green BPET-20030613AFZ	27N OH Bowling Green BPET-20030613AFZ
	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW
	28N IN Elkhart BLCT-19991223ACN	28A IN Elkhart BDTV-00000110	28A IN Elkhart BMPCT-20050620ABX	28A IN Elkhart Proposal
	27A IA Cedar Rapids BPCDT-19991028ACW	27A IA Cedar Rapids BPCDT-19991028ACW	27A IA Cedar Rapids BPCDT-19991028ACW	27A IA Cedar Rapids BPCDT-19991028ACW
	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368
Baseline	9,253,708	9,233,178	9,243,567	9,244,635
Percentage of received IX		0.22%	0.11%	0.10%
Results for: 28A IL BLOOMINGTON				
HAAT 293.0 m, ERP 1000.0 kW				
Population within NL Contour	1,016,912	1,016,912	1,016,912	1,016,912
not affected by terrain losses	1,016,352	1,016,352	1,016,352	1,016,352
lost to NTSC IX	3,911	3,452	3,452	3,452
lost to additional IX by DTV	517	719	719	719
lost to IX by DTV only	2,384	2,384	2,384	2,384
lost to all IX	4,428	4,171	4,171	4,171
Potential Interfering Stations:				
	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA	27N IL Urbana BLCT-20020226AAA
	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE
	28N IN Elkhart BLCT-19991223ACN	28A IN Elkhart BDTV-00000110	28A IN Elkhart BMPCT-20050620ABX	28A IN Elkhart Proposal
	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368
Baseline	1,011,924	1,012,181	1,012,181	1,012,181
Percentage of received IX		-0.03%	-0.03%	-0.03%
Results for: 28A WI MILWAUKEE				
HAAT 305.0 m, ERP 1000.0 kW				
Population within NL Contour	3,001,756	3,001,756	3,001,756	3,001,756
not affected by terrain losses	2,990,946	2,990,946	2,990,946	2,990,946
lost to NTSC IX	10,305	8,950	8,950	8,950
lost to additional IX by DTV	124,735	125,487	125,724	125,629
lost to IX by DTV only	134,342	134,342	134,579	134,484
lost to all IX	135,040	134,437	134,674	134,579
Potential Interfering Stations:				
	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW	27N WI Madison BLCT-20000306AAW
	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE	28N IA Cedar Rapids BLCT-19961002KE
	28N IN Elkhart BLCT-19991223ACN	28A IN Elkhart BDTV-00000110	28A IN Elkhart BMPCT-20050620ABX	28A IN Elkhart Proposal
	28N WI Menomonie BMLET-20021118ACH	28N WI Menomonie BMLET-20021118ACH	28N WI Menomonie BMLET-20021118ACH	28N WI Menomonie BMLET-20021118ACH
	27A IL Chicago BMPCT-20021202ABR	27A IL Chicago BMPCT-20021202ABR	27A IL Chicago BMPCT-20021202ABR	27A IL Chicago BMPCT-20021202ABR
	28A IL Bloomington BMPCT-20030805AHV	28A IL Bloomington BMPCT-20030805AHV	28A IL Bloomington BMPCT-20030805AHV	28A IL Bloomington BMPCT-20030805AHV
	28A WI Eagle River BMPCT-20041001ANY	28A WI Eagle River BMPCT-20041001ANY	28A WI Eagle River BMPCT-20041001ANY	28A WI Eagle River BMPCT-20041001ANY
	29A IL Chicago BLCDT-20010531ACY	29A IL Chicago BLCDT-20010531ACY	29A IL Chicago BLCDT-20010531ACY	29A IL Chicago BLCDT-20010531ACY
	27A WI Appleton BDTV-00000193	27A WI Appleton BDTV-00000193	27A WI Appleton BDTV-00000193	27A WI Appleton BDTV-00000193
Baseline	2,855,906	2,856,509	2,856,272	2,856,367
Percentage of received IX		-0.02%	-0.01%	-0.02%

FIGURE 7
SUMMARY OF INTERFERENCE ANALYSES
RE: 28A IN ELKHART

AFFECTED STATIONS	28A IN ELKHART			
	Baseline Calculation (Certification Database)	7th FNPRM, FCC 06-150 Appendix B Facilities	7th R&O, FCC 07-138 Appendix B Facilities	Petition for Reconsideration Proposed Appendix B Facilities
Results for: 29A IL CHICAGO				
HAAT 508.0 m, ERP 350.0 kW				
Population within NL Contour	9,540,682	9,540,682	9,540,682	9,540,682
not affected by terrain losses	9,539,142	9,539,142	9,539,142	9,539,142
lost to NTSC IX	1,369	415	415	415
lost to additional IX by DTV	44,222	45,176	45,176	45,176
lost to IX by DTV only	45,518	45,518	45,518	45,518
lost to all IX	45,591	45,591	45,591	45,591
Potential Interfering Stations:	28N IN Elkhart BLCT-19991223ACN	28A IN Elkhart BDTV-00000110	28A IN Elkhart BMPCT-20050620ABX	28A IN Elkhart Proposal
	29N IN Kokomo BLCT-19880523KI	29N IN Kokomo BLCT-19880523KI	29N IN Kokomo BLCT-19880523KI	29N IN Kokomo BLCT-19880523KI
	29A WI Wausau DTVPLN-DTVP0772	29A WI Wausau DTVPLN-DTVP0772	29A WI Wausau DTVPLN-DTVP0772	29A WI Wausau DTVPLN-DTVP0772
	30A IN South Bend DTVPLN-DTVP0786	30A IN South Bend DTVPLN-DTVP0786	30A IN South Bend DTVPLN-DTVP0786	30A IN South Bend DTVPLN-DTVP0786
	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368	28A WI Milwaukee BDTV-00000368
Baseline	9,493,551	9,493,551	9,493,551	9,493,551
Percentage of received IX		0.00%	0.00%	0.00%